

## UNCLASSIFIED

RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2 Exhibit)								DATE February 2002	
BUDGET ACTIVITY <b>05 - Engineering and Manufacturing Development</b>				PE NUMBER AND TITLE <b>0604762F Common Low Observable Verification Sys</b>				PROJECT <b>4683</b>	
COST (\$ in Thousands)	FY 2001 Actual	FY 2002 Estimate	FY 2003 Estimate	FY 2004 Estimate	FY 2005 Estimate	FY 2006 Estimate	FY 2007 Estimate	Cost to Complete	Total Cost
4683      Common Low Observable Verification System	9,009	6,647	4,781	0	0	0	0	0	34,795
Quantity of RDT&E Articles	0	0	0	0	0	0	0	0	0
<p>(U) <b><u>A. Mission Description</u></b>  Common Low Observable Verification System (CLOVerS) is intended as an easily deployable flightline system to evaluate surface anomalies on low observable (stealth) aircraft. It will allow maintenance personnel to determine if a repair is needed, or if the repair performed was successful in restoring the low observable characteristic of the aircraft. CLOVerS is intended for use with the B-2, F-117, F-22, as well as future aircraft such as the Joint Strike Fighter. Key capabilities required include the ability to detect, locate, and resolve small surface defects, reduced measurement time (compared to existing verification methods), operation under less restrictive security measures, and a small deployment footprint.</p> <p>(U) <b><u>FY 2001 (\$ in Thousands)</u></b>  (U) \$8,715                      Continue Development Contract  (U) \$83                              Continue Development Contract Award Fee  (U) \$211                              Program Office Support  (U) \$9,009                              Total</p> <p>(U) <b><u>FY 2002 (\$ in Thousands)</u></b>  (U) \$6,402                              Continue Development Contract  (U) \$48                                      Continue Development Contract Award Fee  (U) \$197                                      Program Office Support  (U) \$6,647                                      Total</p> <p>(U) <b><u>FY 2003 (\$ in Thousands)</u></b>  (U) \$4,555                                      Complete Development Contract  (U) \$43    Complete Development Contract Award Fee  (U) \$183    Program Office Support  (U) \$4,781    Total</p>									
<div style="display: flex; justify-content: space-between;"> <span>Project 4683</span> <span>Page 1 of 5 Pages</span> <span>Exhibit R-2 (PE 0604762F)</span> </div>									

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<p>(U) <b><u>B. Budget Activity Justification</u></b>            This program is in budget activity 5 - Engineering and Manufacturing Development, Research Category 6.4 because this program develops the Common Low Observable Verification System (CLOVerS).</p> <p>(U) <b><u>C. Program Change Summary (\$ in Thousands)</u></b></p> <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 50%;"></th> <th style="width: 10%; text-align: right;"><u>FY 2001</u></th> <th style="width: 10%; text-align: right;"><u>FY 2002</u></th> <th style="width: 10%; text-align: right;"><u>FY 2003</u></th> <th style="width: 20%; text-align: right;"><u>Total Cost</u></th> </tr> </thead> <tbody> <tr> <td>(U) Previous President's Budget</td> <td style="text-align: right;">11,515</td> <td style="text-align: right;">2,078</td> <td style="text-align: right;">0</td> <td style="text-align: right;">28,650</td> </tr> <tr> <td>(U) Appropriated Value</td> <td style="text-align: right;">11,621</td> <td style="text-align: right;">6,713</td> <td></td> <td></td> </tr> <tr> <td>(U) Adjustments to Appropriated Value</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>    a. 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Other Program Funding Summary (\$ in Thousands)</u></b></p> <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 20%;"></th> <th style="width: 10%; text-align: right;"><u>FY 2001</u></th> <th style="width: 10%; text-align: right;"><u>FY 2002</u></th> <th style="width: 10%; text-align: right;"><u>FY 2003</u></th> <th style="width: 10%; text-align: right;"><u>FY 2004</u></th> <th style="width: 10%; text-align: right;"><u>FY 2005</u></th> <th style="width: 10%; text-align: right;"><u>FY 2006</u></th> <th style="width: 10%; text-align: right;"><u>FY 2007</u></th> <th style="width: 10%; text-align: right;"><u>Cost to</u></th> <th style="width: 10%; text-align: right;"><u>Total Cost</u></th> </tr> <tr> <th></th> <th style="text-align: right;"><u>Actual</u></th> <th style="text-align: right;"><u>Estimate</u></th> <th style="text-align: right;"><u>Estimate</u></th> <th style="text-align: right;"><u>Estimate</u></th> <th style="text-align: right;"><u>Estimate</u></th> <th style="text-align: right;"><u>Estimate</u></th> <th style="text-align: right;"><u>Estimate</u></th> <th style="text-align: right;"><u>Complete</u></th> <th></th> </tr> </thead> <tbody> <tr> <td>(U) PE27145F:Appn: Aircraft</td> <td style="text-align: right;">0</td> <td style="text-align: right;">11</td> <td></td> <td style="text-align: right;">692</td> <td style="text-align: right;">0</td> <td style="text-align: right;">0</td> <td style="text-align: right;">0</td> <td style="text-align: right;">0</td> <td style="text-align: right;">703</td> </tr> <tr> <td colspan="10">Procurement, AF (APAF)</td> </tr> <tr> <td colspan="10">Budget Activity: Aircraft</td> </tr> <tr> <td colspan="10">(A/C) Procurement/Common</td> </tr> <tr> <td colspan="10">Support Equipment, Program</td> </tr> <tr> <td colspan="10">Title: Common Low</td> </tr> <tr> <td colspan="10">Observable Test Equipment</td> </tr> </tbody> </table>									<u>FY 2001</u>	<u>FY 2002</u>	<u>FY 2003</u>	<u>Total Cost</u>	(U) Previous President's Budget	11,515	2,078	0	28,650	(U) Appropriated Value	11,621	6,713			(U) Adjustments to Appropriated Value					a. Congressional/General Reductions	-81	-66			b. Small Business Innovative Research	-420				c. Omnibus or Other Above Threshold Reprogram	-14				d. Below Threshold Reprogram	-2,072				e. Rescissions	-25				(U) Adjustments to Budget Years Since FY 2002 PBR			4,781	6,145	(U) Current Budget Submit/FY 2003 PBR	9,009	6,647	4,781	34,795		<u>FY 2001</u>	<u>FY 2002</u>	<u>FY 2003</u>	<u>FY 2004</u>	<u>FY 2005</u>	<u>FY 2006</u>	<u>FY 2007</u>	<u>Cost to</u>	<u>Total Cost</u>		<u>Actual</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Complete</u>		(U) PE27145F:Appn: Aircraft	0	11		692	0	0	0	0	703	Procurement, AF (APAF)										Budget Activity: Aircraft										(A/C) Procurement/Common										Support Equipment, Program										Title: Common Low										Observable Test Equipment									
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## RDT&amp;E BUDGET ITEM JUSTIFICATION SHEET (R-2 Exhibit)

DATE

February 2002

BUDGET ACTIVITY

PE NUMBER AND TITLE

PROJECT

**05 - Engineering and Manufacturing Development****0604762F Common Low Observable Verification Sys 4683**(U) **E. Acquisition Strategy**

The contract was awarded using full and open competition. Engineering and Manufacturing Development (EMD) contract type is Cost Plus Award Fee.

(U) **F. Schedule Profile**

	<u>FY 2001</u>				<u>FY 2002</u>				<u>FY 2003</u>			
	1	2	3	4	1	2	3	4	1	2	3	4
(U) Baseline Software Development	*	*	*	*	*	X	X	X	X	X	X	X
(U) Conduct B-2 Initial Integration Testing				*	*	X	X	X	X	X	X	X
(U) Develop Platform Specific Software								X	X	X	X	X
(U) Develop Advanced Diagnostics										X	X	X
(U) Hardware Design Review												X
(U) DT&E												X
(U) OT&E												X
(U) LRIP Production - FY04												
(U) System Deliveries Begin (FY05)												
* = Completed event												
X = Planned event												

Project 4683

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RDT&E PROGRAM ELEMENT/PROJECT COST BREAKDOWN (R-3)							DATE February 2002			
BUDGET ACTIVITY					PE NUMBER AND TITLE				PROJECT	
<b>05 - Engineering and Manufacturing Development</b>					<b>0604762F Common Low Observable Verification Sys</b>				<b>4683</b>	
(U) <b><u>A. Project Cost Breakdown (\$ in Thousands)</u></b>										
					<u>FY 2001</u>	<u>FY 2002</u>	<u>FY 2003</u>			
(U) CLOVerS Development Contract					8,715	6,402	4,555			
(U) CLOVerS Development Contract Award Fee					83	48	43			
(U) Program Office Support					211	197	183			
(U) Total					9,009	6,647	4,781			
(U) <b><u>B. Budget Acquisition History and Planning Information (\$ in Thousands)</u></b>										
(U) <b><u>Performing Organizations:</u></b>										
<u>Contractor or</u>	<u>Contract</u>									
<u>Government</u>	<u>Method/Type</u>	<u>Award or</u>	<u>Performing</u>	<u>Project</u>						
<u>Performing</u>	<u>or Funding</u>	<u>Obligation</u>	<u>Activity</u>	<u>Office</u>	<u>Total Prior</u>	<u>Budget</u>	<u>Budget</u>	<u>Budget</u>	<u>Budget to</u>	<u>Total</u>
<u>Activity</u>	<u>Vehicle</u>	<u>Date</u>	<u>EAC</u>	<u>EAC</u>	<u>to FY 2001</u>	<u>FY 2001</u>	<u>FY 2002</u>	<u>FY 2003</u>	<u>Complete</u>	<u>Program</u>
<u>Product Development Organizations</u>										
Boeing Co., St Louis	CPAF/FPIF	May 99	21,910	22,263	12,671	8,798	6,450	4,598	0	32,517
<u>Support and Management Organizations</u>										
ASC/FBXC, WPAFB OH	Various				1,687	211	197	183	0	2,278
<u>Test and Evaluation Organizations</u>										
(U) <b><u>Government Furnished Property:</u></b>										
		<u>Contract</u>								
		<u>Method/Type</u>	<u>Award or</u>							
<u>Item</u>	<u>or Funding</u>	<u>Obligation</u>	<u>Delivery</u>							
<u>Description</u>	<u>Vehicle</u>	<u>Date</u>	<u>Date</u>	<u>Total Prior</u>	<u>Budget</u>	<u>Budget</u>	<u>Budget</u>	<u>Budget to</u>	<u>Total</u>	
<u>Product Development Property</u>										
Advanced Diagnostic Analysis Package (ADAP) and Radar Diagnostic Expert Equipment (RDES) software will be available to the contractor. Imaging Data from the B-2, F-117, and F-22 will be provided as appropriate. Current landing gear shrouds and flight control surface supports will be used until the CLOVerS items are developed. Imaging data (classified) on relevant platforms will be provided for software algorithm development.										
<u>Support and Management Property</u>										
<u>Test and Evaluation Property</u>										
Project 4683										

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RDT&E PROGRAM ELEMENT/PROJECT COST BREAKDOWN (R-3)						DATE February 2002	
BUDGET ACTIVITY			PE NUMBER AND TITLE			PROJECT	
<b>05 - Engineering and Manufacturing Development</b>			<b>0604762F Common Low Observable Verification Sys</b>			<b>4683</b>	
<u>Subtotals</u>	<u>Total Prior</u>	<u>Budget</u>	<u>Budget</u>	<u>Budget</u>	<u>Budget to</u>	<u>Total</u>	
	<u>to FY 2001</u>	<u>FY 2001</u>	<u>FY 2002</u>	<u>FY 2003</u>	<u>Complete</u>	<u>Program</u>	
Subtotal Product Development	12,671	8,798	6,450	4,598	0	32,517	
Subtotal Support and Management	1,687	211	197	183	0	2,278	
Subtotal Test and Evaluation							
Total Project	14,358	9,009	6,647	4,781	0	34,795	

Project 4683
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Exhibit R-3 (PE 0604762F)